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<110> Friddle, Carl Johan  
Hilbun, Erin  
Wilganowski, Nathaniel L.

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<213> homo sapiens

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Ser Gly Asn Glu Ser Gln His Arg Leu Asp Phe Gln Leu Met Leu Lys  
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Thr Trp Arg Ser Arg Gln Gln Asp Arg Glu Asn Cys Ala Met Lys Gly  
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Lys His Lys Asp Glu Cys His Asn Phe Ile Lys Val Phe Val Pro Arg  
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Cys Arg Tyr Tyr Arg Leu Ser Thr Leu Glu Tyr Asp Gly Glu Glu Ile  
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Ser Gly Leu Ala Arg Cys Pro Phe Asp Ala Arg Gln Thr Asn Val Ala  
165 170 175  
Leu Phe Ala Asp Gly Lys Leu Tyr Ser Ala Thr Val Ala Asp Phe Leu  
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Ala Ser Asp Ala Val Ile Tyr Arg Ser Met Gly Asp Gly Ser Ala Leu  
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Arg Thr Ile Lys Tyr Asp Ser Lys Trp Ile Lys Glu Pro His Phe Leu  
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His Ala Ile Glu Tyr Gly Asn Tyr Val Tyr Phe Phe Phe Arg Glu Ile  
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260 265 270  
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Gln Ile Asn Gly Ile Pro Thr Val Val Gly Val Phe Thr Thr Gln Leu  
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Asn Ser Ile Pro Gly Ser Ala Val Cys Ala Phe Ser Met Asp Asp Ile  
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Glu Lys Val Phe Lys Gly Arg Phe Lys Glu Gln Lys Thr Pro Asp Ser  
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Val Trp Thr Ala Val Pro Glu Asp Lys Val Pro Lys Pro Arg Pro Gly  
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Phe Pro Asp Glu Thr Leu Ser Phe Ile Lys Ser His Pro Leu Met Asp  
385 390 395 400  
Ser Ala Val Pro Pro Ile Ala Asp Glu Pro Trp Phe Thr Lys Thr Arg  
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Val Arg Tyr Arg Leu Thr Ala Ile Ser Val Asp His Ser Ala Gly Pro

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<212> PRT

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50 55 60
Tyr Thr Val Asn Leu Asn Glu Met Pro Lys Thr Glu Val Ile Pro Asn
65 70 75 80
Lys Lys Leu Thr Trp Arg Ser Arg Gln Gln Asp Arg Glu Asn Cys Ala
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Met Lys Gly Lys His Lys Asp Glu Cys His Asn Phe Ile Lys Val Phe
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130 135 140
Glu Glu Ile Ser Gly Leu Ala Arg Cys Pro Phe Asp Ala Arg Gln Thr
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Ser Ala Leu Arg Thr Ile Lys Tyr Asp Ser Lys Trp Ile Lys Glu Pro
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225 230 235 240
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Val Pro Gly Asp Ser Phe Phe Tyr Phe Asp Val Leu Gln Ser Ile Thr
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Pro	Asp	Ser	Val	Trp	Thr	Ala	Val	Pro	Glu	Asp	Lys	Val	Pro	Lys	Pro	340	345	350
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Lys	Thr	Arg	Val	Arg	Tyr	Arg	Leu	Thr	Ala	Ile	Ser	Val	Asp	His	Ser	405	410	415
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Gly	Met	Val	Leu	Lys	Val	Leu	Ala	Lys	Thr	Ser	Pro	Phe	Ser	Leu	Asn	435	440	445
Asp	Ser	Val	Leu	Leu	Glu	Glu	Ile	Glu	Ala	Tyr	Asn	His	Ala	Lys	Cys	450	455	460
Ser	Ala	Glu	Asn	Glu	Glu	Asp	Lys	Lys	Val	Ile	Ser	Leu	Gln	Leu	Asp	465	470	475
Lys	Asp	His	His	Ala	Leu	Tyr	Val	Ala	Phe	Ser	Ser	Cys	Ile	Ile	Arg	485	490	495
Ile	Pro	Leu	Ser	Arg	Cys	Glu	Arg	Tyr	Gly	Ser	Cys	Lys	Lys	Ser	Cys	500	505	510
Ile	Ala	Ser	Arg	Asp	Pro	Tyr	Cys	Gly	Trp	Leu	Ser	Gln	Gly	Ser	Cys	515	520	525
Gly	Arg	Val	Thr	Pro	Gly	Met	Leu	Ala	Glu	Gly	Tyr	Glu	Gln	Asp	Thr	530	535	540
Glu	Phe	Gly	Asn	Thr	Ala	His	Leu	Gly	Asp	Cys	His	Glu	Ile	Leu	Pro	545	550	555
Thr	Ser	Thr	Thr	Pro	Asp	Tyr	Lys	Ile	Phe	Gly	Gly	Pro	Thr	Ser	Asp	565	570	575
Met	Glu	Val	Ser	Ser	Ser	Ser	Val	Thr	Thr	Met	Ala	Ser	Ile	Pro	Glu	580	585	590
Ile	Thr	Pro	Lys	Val	Ile	Asp	Thr	Trp	Arg	Pro	Lys	Leu	Thr	Ser	Ser	595	600	605
Arg	Lys	Phe	Val	Val	Gln	Asp	Asp	Pro	Asn	Thr	Ser	Asp	Phe	Thr	Asp	610	615	620
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Tyr	Arg	Asp	Met	Phe	Val	Arg	Lys	Asn	Arg	Lys	Ile	His	Lys	Asp	Ala	675	680	685
Glu	Ser	Ala	Gln	Ser	Cys	Thr	Asp	Ser	Ser	Gly	Ser	Phe	Ala	Lys	Leu	690	695	700
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Ser	Pro	Lys	Leu	Tyr	Ser	Asn	Leu	Leu	Thr	Ser	Arg	Lys	Glu	Leu	Pro	725	730	735

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 Gln Lys Thr Leu Gln Ala Met Lys Ser His Ser Glu Lys Ala His Gly  
 770 775 780  
 His Gly Ala Ser Arg Lys Glu Thr Pro Gln Phe Phe Pro Ser Ser Pro  
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 Pro Pro His Ser Pro Leu Ser His Gly His Ile Pro Ser Ala Ile Val  
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 Ala His Lys Ala Glu Lys Lys Leu Gln Asn Ile Asp His Pro Leu Thr  
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 Lys Ser Ser Ser Lys Arg Asp His Arg Arg Ser Val Asp Ser Arg Asn  
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 Thr Leu Asn Asp Leu Leu Lys His Leu Asn Asp Pro Asn Ser Asn Pro  
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 Asp Pro Met Gly Ser Met Ser Glu Val Pro Pro Lys Val Pro Asn Arg  
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 Glu Ala Ser Leu Tyr Ser Pro Pro Ser Thr Leu Pro Arg Asn Ser Pro  
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